

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims:

1. – 17. Canceled.

18. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) mounting the element on a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit;
- (b) bringing the element into proximity of the surface while continuously capturing an image of the element and of the surface;
- (c) transmitting the image or its representation to a display for displaying a real-life image of the captured image or representation together with indicators providing guidance information on intended position of the orthodontic element on the surface, said indicators consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) positioning the element on a surface according to said indicators such that the element's position coincides with the intended position; and
- (e) fixing the element onto the surface.

19. (Previously presented) A method according to Claim 18, wherein said element is fixed such that it is in a fixed position of the acquired image.

20. (Previously presented) A method according to Claim 18, wherein said element is an orthodontic bracket.

21. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) mounting the element on a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit;
- (b) bringing the element into proximity of the surface while continuously monitoring the element by an image acquisition unit which captures an image of the element and its surrounding and transmits this image to a screen;
- (c) displaying on a screen
 - i. said image,
 - ii. guidance information relating to a proper position of the element on said surface, said guidance information consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) in case of a discrepancy between actual position of said element, being the position of the element viewed on the screen, and said proper position, correcting the actual position to match said proper position; and
- (e) fixing the element onto the surface.

22. (Previously presented) A method according to Claim 21, wherein the element is displayed in the center of the image displayed on the screen.

23. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) placing the element on the surface;
- (b) by the use of a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit, continuously capturing an image of the element and of the surface;
- (c) transmitting the image or its representation to a display for displaying a real-life image of the captured image or representation together with indicators providing guidance information on intended position of the orthodontic element on the surface, said indicators consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) positioning the element on a surface according to said indicators such that the element's position coincides with the intended position; and
- (e) fixing the element onto the surface.

24. (Previously presented) A method according to Claim 23, wherein said element is fixed such that it is in a fixed position of the acquired image.

25. (Previously presented) A method according to Claim 23, wherein said element is an orthodontic bracket.

26. (Previously presented) A method for positioning and fixing an orthodontic element on a

surface, comprising:

- (a) placing the element on the surface;
- (b) by the use of a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit, continuously monitoring the element by an image acquisition unit which captures an image of the element and its surrounding and transmits this image to a screen;
- (c) displaying on a screen
 - i. said image,
 - ii. guidance information relating to a proper position of the element on said surface, said guidance information consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) in case of a discrepancy between actual position of said element, being the position of the element viewed on the screen, and said proper position, correcting the actual position to match said proper position; and
- (e) fixing the element onto the surface.

27. (Previously presented) A method according to Claim 26, wherein the element is displayed in the center of the image displayed on the screen.

28. (Previously presented) A method according to Claim 27 wherein said step (d) further comprising, in case of a match between actual position of said element, being the position of the element viewed on the screen, and said proper position, indicating that the proper position is achieved.

29. (Previously presented) A method for orthodontic treatment, comprising:

- determining through a processor means a proper position of an orthodontic element on a surface; and

- capturing an image of the element through an image acquisition unit and displaying an image or representation of the element on a display together with guidance information on proper position of the element on the surface and positioning said element on the surface with the aid of said guidance information,

wherein said guidance information is corrected as the position of the element changes with respect to said surface.

30. – 37. Canceled.